

Notice of Allowability

Application No.

09/845,216

Examiner

Jason M. Perilla

Applicant(s)

URABE ET AL.

Art Unit

2638

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed August 10, 2005.
2. ☒ The allowed claim(s) is/are claims 16-23 renumbered respectively as claims 1-8.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 20050831.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT

1. Claims 16-23 are pending in the instant application.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael G. Savage (32596) on August 31, 2005.

The application has been amended as follows:

Regarding claim 16, in line 6, "enabled partial filters" is replaced by --activated partial filters--, in line 10, "having $m \times n$ chips" is replaced by --having m chips--, and, in line 17, " $N \geq n \geq 1$ " is replaced by -- $N \geq 2; n \geq 1$ --.

Regarding claim 17, in lines 2-3, "based upon reliability information such as signal-to-noise ratio and signal-to-interference ratio of the received signal" is replaced by --based upon reliability information of the received signal--.

Regarding claim 21, in line 4, "enabled partial filters" is replaced by --activated partial filters--, in line 7, "having $m \times n$ chips" is replaced by --having m chips--, in line 12, "enabled partial filters" is replaced by --activated partial filters--, and, in line 16, " $N \geq n \geq 1$ " is replaced by -- $N \geq 2; n \geq 1$ --.

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Regarding claim 22, in lines 2-3, "based upon reliability information such as signal-to-noise ratio and signal-to-interference ratio of the received signal" is replaced by –based upon reliability information of the received signal–.

Claims 16-23 are renumbered as claims 1-8, respectively, and the claim dependency is renumbered accordingly.

Allowable Subject Matter

3. Claims 16-23 renumbered respectively as claims 1-8 are allowed.
4. The following is an examiner's statement of reasons for allowance:

Claims 16-23 renumbered respectively as claims 1-8 are allowed because the prior art of record does not disclose or obviate a matched filter having a control means to activate or deactivate N partial filters, apply to the N partial filters, based upon a time width of effective paths included in a received signal, divided portions of a spreading code sequence and a received signal sequence and a first and a second adder means to add the outputs of the activated partial filters and integrate the outputs of the first adder means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

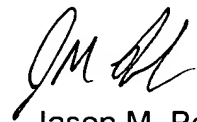
Conclusion

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Perilla whose telephone number is (571) 272-3055. The examiner can normally be reached on M-F 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Vanderpuye can be reached on (571) 272-3078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jason M. Perilla
August 31, 2005

jmp



CHIEH M. FAN
PRIMARY EXAMINER